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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/019,185	12/28/2001	Georg Weihrauch	19071.6	1320	
7590 08/09/2004			EXAMINER		
Lichti Lempert & Lasch Bergwaldstr 1			KUHNS, ALLAN R		
Karlsruhe, D-76227			ART UNIT	PAPER NUMBER	
GERMANY			1732		
			DATE MAILED: 08/09/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

1)⊠ Responsive to communication(s) filed on 26 May 2004.  2a)⊠ This action is FINAL. 2b)☐ This action is non-final.  3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4)☑ Claim(s) 21-41 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  5)☐ Claim(s) is/are allowed.  6)☑ Claim(s) 21-22 24-26 28-36 and 38-41 is/are rejected.  7)☑ Claim(s) 23.27 and 37 is/are objected to.  8)☐ Claim(s) are subject to restriction and/or election requirement.  Application Papers  9)☐ The specification is objected to by the Examiner.  10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.  Priority under 35 U.S.C. § 119  12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a)☐ All b)☐ Some * o)☐ None of:  1.☐ Certified copies of the priority documents have been received.  2.☐ Certified copies of the priority documents have been received in Application No  3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					/*		
## Examiner   Altan Kuhns   1732    ## The MAILING DATE of this communication appears on the cover sheet with the correspondence address  ## Period for Reply    A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  ** Extension of time may be evaluate under the processor at 37 CPR 1.138(n). In me event, however, may a reply be timely tilded.  ** If the period for regly is specified above, the memorium statistical processor and statistical processor and statistical processor and statistical processor. The period for regly is specified above, the memorium statistical processor and statistical processor. The period for regly is specified above, the memorium statistical processor. The period for regly is specified above, the memorium statistical processor. The period for regly is specified above, the memorium statistical processor. The period for regly is specified above, the memorium statistical processor. The period for regly is specified above, the memorium statistical processor. The period of the period of regly is specified above, the memorium statistical processor. The period of the period of the period of the period of the corrorunciation, even if timely lifed, may reduce any results of the corrorunciation, even if timely lifed, may reduce any reduced any reduced any reduced and period of the corrorunciation, even if timely lifed, may reduce any reduced any reduced any reduced and period of the corrorunciation, even if timely lifed, may reduced any reduced any reduced and period of the corrorunciation, even if timely lifed, may reduced any reduced any reduced and period to the corrorunciation, even if timely lifed, may reduced any reduced and period to the corrorunciation and reduced any reduced an			Application No.	Applicant(s)			
Alian Kuhns			10/019,185	WEIHRAUCH, GEORG			
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1.The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2.Claims 21-22, 24-26, 28-36 and 38-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Roberts et al. (5,987,688) in view of Japanese reference (10-286122) as set forth in the previous Office action.
- 3.Applicant's arguments filed May 26, 2004 have been fully considered but they are not persuasive. Applicant argues that no statement is made in Roberts et al. ('688) concerning a three layer structure. But it is the combination of the '688 reference and the Japanese reference which is relied upon to produce the three-layer structure. Applicant also argues that the '688 reference does not indicate that the jacket is in a liquid or viscous phase. This is not persuasive because the claims, as amended require that the intermediate layer is "plastically deformable in liquid or viscous phase" and it is submitted that the thermoplastic elastomer sheath 30 disclosed by the '688 reference meets this requirement.

Applicant similarly argues that the Japanese reference does not envision a three layer structure but such is taught by the combination of Roberts et al. and the Japanese reference. Applicant also agues that the Japanese reference does not indicate how the stiffening wire is introduced into the bristle. This is also not persuasive because the claims require that pre-tensioned continuous material be at least partially embedded into the plastically deformable intermediate layer and the Japanese reference teaches

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that the wire 2 is "bury-fixed" (i.e. at least partially embedded) on the side face of material 1, which is nylon. Thus the teaching by the Japanese reference of having a wire "bury-fixed" results in the instant claims being readable on the combination of prior art relied upon.

Applicant further argues that the prior art relied upon provides no motivation for the three layer structure as recited, but it is still the examiner's position that such motivation is provided by the teachings of the Japanese reference which produces bristles which are less likely to fall down and bend.

4.**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5.Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allan Kuhns whose telephone number is (571) 272-1202. The examiner can normally be reached on Monday to Thursday from 7:00 to 5:30.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Colaianni, can be reached on (571) 272-1196. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ALLAN R. KUHNS PRIMARY EXAMINER AU 173 Z

8-5-04

alla R. Kuhm